SECRET

TAB B - HANOI-SOUTHERN TERMINUS OF OPERABLE RAIL LINE

Location	Target Number	Hane	Date	Status
20-32-501 105-55-15E		Phu Ly RR Bridge 7 over Song Lap	7 Nov 65	Photography of 10 Rovember revealed that two spans dropped on NNE end. NNE causeway separated from bridge, about 75° of causeway destroyed.
l		(4 span 240° x 8°)		Southernmost span appears twisted. By 10 November 65, bridge not operational, no
25X1				reconstruction activity known. No later photo coverage available.

DIA review(s) completed.

Location	Tarnet Number	Mane	Date	Status
20-15-40m 105-59-20s 25X1		Ninh Binh RR/Hwy Bridge over Song Day (4 span 680' x 23')	15 June 65	Struck on 15 June. Photography of 15 June revealed southern span dropped from south pier into water; no apparent damage to approaches. Photography reveals no reconstruction attempts thru 24 July. Between 24 July and 21 September reconstruction of temporary deck bridging over dropped span started and progressed to advance stage of restoration to allow very light rail traffic. Operable status not achieved.
			26-27-30 Sept 65	Strikes did extremely minor damage. 1 Oct 65 photography shows temporary bridging slightly damaged. There have been no subsequent strikes and no more current photography available. It is estimated that by 10 Oct 65 the bridge could have been operational for lightly loaded rail cars, but not for train traffic or locomotives.

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Status

TAB B - HAMOI-SOUTHERN TERMINUS OF OPERABLE RAIL LINE

Name

Target Number

Location

Date

Hwy Route 1A			Dong Phuong Thuong RR/Ewy Br over Song Len	3 Apr 65	Center span collapsed and resting on river bottom. Immediate temporary reconstruction included deck span built on top of collapsed
19-58-36N/ 105-50-54B	•		(3 span, 525' x 22' steel thru truss)		span. Observed as late as 23 May 65, operational status probably not abtained for rail traffic. Old highway ferry crossing, just east, renovated; additional ferry crossing constructed upstream. Floating bridge constructed about one mile upstream.
25/1					
			v.	25, 27, 28 May & 1 June	Southern span dropped and temporary deck span destroyed. No further reconstruction of this structure noted. As of 9 June, float bridge
	, -				still in place.
·		•		27 June	Northern span dropped and shifted downstream. As of 27 June, bridge completely useless.
			•	•	From early July to mid-August, no work done on 18.8. However, a reached for a by-pass was started. As of 13 July, the by-pass float bridge
•					was still in place, approx. 1 mile from the target; used for pedestrian and cart traffic. Photography on 12 Sept revealed center piers
					of new by-pass bridge upstream from 18.8 were in place. Roadbed almost complete to bridge under construction.

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Location Target Number

Ease

Date

Status

Old bridge apparently restruck. Approaches
cut. New by-pass bridge under construction
apparently not struck. As of 8 Oct 65,
transhipment facilities in place near target;
consists of 3 localing ramps at water edge with
rail spur nearby. By 6 Nov 65, new by-pass
rail bridge (5 span, deck type) eccepted and
operational.

As of 24 Nov 65,

25X1

there were two ferry landings and a float bridge adjacent to the destroyed bridge.

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TAB B - HANDI-SOUTHERN TERMINUS OF OPERABLE RAIL LINE

DOCADION	Target Number	Name	Date	Status
19 50 121/ 105 47 56E		Than Hoa RR/Hwy Bridge over Song Man (2 spans - 540' x 22' steel thru truss)	3-4 Apr	These strikes destroyed or severely damaged 75% of the highway lane on the south side of the bridge and approaches; 24% of the length of the north side highway lane. Structural damage to the truss and railbed rendered the bridge impassable to rail as well as vehicular traffic. By 26 April though still impassable for rail or vehicular traffic, good progress had been made on restoring the heavily damaged eastern road/rail approach. Temporary supports had been built up under the east end of the bridge to reinforce that portion of the spon which suffered structural damage. Repair of damaged truss members is evident at several points.
			7 Hay	Restrike cratered the eastern approach severely; damage sustained by eastern portion of bridge; all spans on main truss remain up.
			31 May	Another strike produced light damage to abutment, all spans on main truss still up. It was estimated that vehicular traffic could use bridge on rail lane within one week and four weeks were needed to complete emergency reconstruction for rail usage.

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Location	Target Number	<u> Hane</u>	Date	Stetus
			1 Jun - 30 Aug	Although struck by armed Reconnaissance in June and July no significant new damage to the bridg was noticed. By July a pontoon bridge for lighteraffic was installed on the south bank and remained as late as 10 November.
		-	13 Sep	Restruck on 13 September again no apparent new damage. By 15 September the highway lanes and suspension numbers were removed and rail lane
	•	e de la companya de l La companya de la companya de	1	decked for vehicular use.
		1	Sep 27-28	Restruck, no apparent new deenge.
			29 Sep	Photography revealed that the bridge was serviceable for rail and vehicular use. No subsequent damage to bridge has been noted.

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TAB B - HANDI-SOUTHERN TERMINUS OF OPERABLE LINE

Location	. Target Minder	None	Date	Status
19-15-4511/ 105-41-20E		Qui Vinh RR Bridge over Song Hoang Mai	9 Apr 65	9 April photography confirmed that the HE span destroyed and dropped into river. East end of SM span possibly dropped into river and the approaches
		(352' x 22' type steel thru truss)		vere destroyed. No subsequent attempts were made to restore this bridge to service. The structure remains unserviceable. Temporary by-pass bridge
25X1				for light traffic constructed adjacent to old bridge. Photography on 17 Aug 65 reveals this bridge operational for extremely light traffic.
				Additionally 17 Aug photography revealed road bed was under construction and pile bent type piers were being emplaced for by-pass bridge located
	•			east of the old structure. A section of road bed construction west of the old bridge for another possible by-pass was also noted (17 Aug). Grading work on the western by-pass continued slowly and
				from 7 October to the present no additional work was done on this by-pass.
			න, 27, 28, 29 & 30 Sep 65	Photography of 7 Oct revealed that strikes produced no additional structural damage to remaining spen of old bridge and produced
			· ·	superficial damage to adjacent temporary bridge. Fastern approach cratered. Temporary bridge rendered unserviceable. Photography on 24 Oct 65 reveals that temporary bridge is still unserviceable. No known reconstruction attempted.

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Date Status Tarnet Humber Strikes destroyed 70 feet of edjacent temporary 13, 18, bridge. Old bridge and temporary adjacent bridge & 19 Nov 65 not operational as of 2 November. Photography on 16 December could not be read because of cloud cover. Second by-pass bridge to the east which was revealed under construction in 17 Aug photography has possibly revealed operational status. 18 Hovember photography revealed that all spans but two have been 25X1 completed. Roils and ties had been laid on the long side approach and spans while short side approach remains to be completed. The steel beens for expletion of the remaining two spans were noted on the river bank. No known strikes have been nounted against this bridge 25X1

25X1

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1	.*		TAB B - HANOI - SOUTHER	A TENSINUS O	F OPERABLE LINE
Location	Location	Target Number	Name	Date	Status
182137N 1053700B	185054n 1053915E		Tam Da RR/Hwy Bridge Ov Song Cua Io (480 x 18 ft.; 3-span	(2 strikes)	Two of three spans destroyed, one span moderately damaged, 600 ft. south approach and 350 ft. north approach destroyed; highway approaches heavily cratered; bridge not operational. Ferry by-pass
25X1			steel thru truss)		constructed west of bridge; ponton bridge U/C downstream was noted 16 September. No further strikes directed to target, no known reconstruction. Bridge not operational 13 December 1965. Possible
		•	; 6 yee		by-pass road bed U/C revealed by 30 November and 13 December photography; status of ferry operation unknown.

/	•	TAB B - HANOI - SOUTHER	n Terminus	OF OPERABLE LINE
Location	Terget Number	Name	Date	Status
182137N 1053700E		Trai Hoi RR/Kwy Bridge Ow Ngan Sau	16 Apr	2 spans of 4 span bridge destroyed. One of remaining spans set askew on pier. Reconstruction
		(507 x 16 ft.; 4-span)		activities unknown fording not feasible in vicinity, probable ferry in operation alongside bridge site.
25X1			7-13 Kay	Attacked, damage unknown. Ferry in operation near bridge site probably damaged. Photography on 20 June revealed that extensive reconstruction act-
	· .		. 1	ivity was in progress. Timber support trestles were noted and the water gap was closed by a pedestrian walkway.
	•		2-8 July	Attacked, approaches cratered. Further damage at this time is unknown. Subsequent strike data, not available.

Photography on 17 Sept and 29 Sept revealed that all 4 spens of the bridge were out. No reconstruction or by-pass activities have been noted and

on 13 Dec the bridge remains unserviceable. Highway appears to have been rerouted along east bank of Ngan Sau to new ferry crossing 1-2 miles

below target bridge.

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Status

TAB B - HANOI - SOUTHERS TERRITORS OF OPERABLE LINE

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1603518	La Khe Thon RR Bridge Ov Rgun Sau	26 Apr	West span severely damaged both approaches inter- dicted. Not operational. Reconstruction activities between 25 Apr and 16 Aug are unknown.
25X1	(420 x 18 ft.; 8-span steel bridge)	16 Aug 6 Sep 2 Oct 7 Oct	West span dropped into river, next span severely damaged, steel structure on remaining spans twisted by blast. Additional damage to NW approach.
	•		Reconstruction activity noted 31 Oct 65 and on 17 Dec 65 bridge reconstruction had progressed to point where it is operable to light traffic only. No by-pass noted.